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4 January 2000

INTELLECTUAL PROPERTY LAW

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Attorney Docket: P55941

Sir:

Submitted herewith is the following patent application:

Inventor: ZACHARY DAVID DIMENSTEIN

Title: APPROVED WEB SITE MP3 DOWNLOADING

Please find attached hereto an application for patent which includes: Specification and Abstract, Claims, original Declaration And Power of Attorney, Assignment, and a certified copy of the foreign priority document identified below:

Verified Showing of Small Entity Status: **NO**

Drawings: Formal drawings, 4 sheets, Figures 1 through 4

Claim of priority under 35 U.S.C. §119: **YES**

** Provisional Application No. 60/114,958 filed on 5 January 1999.

FEE (see formula below): CHECK IS NOT ENCLOSED

Basic Fee \$345/690 **\$690.00**

Additional Fees:

Total number of claims in excess of 20: ____ times \$9/18 . **\$0.00**

Number of independent claims in excess of 3: ____ times \$39/78 **\$0.00**

Multiple Dependent Claims \$130/260 **\$0.00**

An Assignment is likewise enclosed: Recording Fee \$40 . . **\$0.00**

Filing Non-English specification **\$0.00**

TOTAL FEES FOR THE ABOVE APPLICATION **\$690.00**

Assistant Commissioner for Patents
4 January 2000
Page Two

Docket No.: P55941

Inventor: ZACHARY DAVID DIMENSTEIN

Title: APPROVED WEB SITE MP3 DOWNLOADING

In view of the above, it is requested that this application be accorded a filing date pursuant to 37 CFR 1.53(b).

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Respectfully submitted,



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REB/kf

TITLE OF THE INVENTION

APPROVED WEB SITE MP3 DOWNLOADING

CLAIM OF PRIORITY

This application makes reference to, incorporates the same herein, and claims all benefits accruing under 35 U.S.C. §§119 from a provisional application for *Approved Web Site MP3 Downloading* earlier filed under 35 U.S.C. §111(b) in the United States Patent & Trademark Office on the 5th of January 1999 and there duly assigned Serial No. 60/114,958.

FIELD OF THE INVENTION

The present invention generally relates to a process and apparatus for ensuring that a digital storage device will only be able to download or play files that were obtained from sources deemed by the manufacturer of the device, or by an overseeing organization, to be acceptable, and, more particularly, to processes and devices able to ensure that the digital storage device does not download, play or display files that were obtained over the Internet from web sites that have not been pre-approved by either the manufacturer of the device or by an overseeing organization.

BACKGROUND OF THE INVENTION

With the growing popularity of using the Internet to transfer files in digital format, there has been increasing concern over the need to protect the intellectual property rights of individuals and organizations to copyrighted materials such as books, music, movies and manuscripts. Once

1 copyrighted materials have been made available in digital format, high quality illegal copies of
2 copyrighted materials can be quickly and indiscriminately be made available to others.

3 Several web sites currently make available for free distribution, unencrypted files of the
4 contents copyrightable material such as books and audio music. Several of these web sites are
5 maintained with the full consent of the lawful owners of the copyrighted material, because some
6 copyright owners see this as a way to help promote and market their products. On the other hand,
7 there are other web sites that make available copyrighted files without the consent of the rightful
8 owners of the copyright. Generally, it is desirable to allow web sites to distribute lawfully available
9 copies of both unencrypted and encrypted files over the Internet to digital devices while concurrently
10 preventing these digital devices from being able to either play or download illegally available files.
11 One technique that is currently used to address this problem uses encryption to allow only devices
12 with the appropriate encryption key to decrypt a particular file; therefore, when an encrypted file is
13 downloaded from a web site, only the devices for which the file was intended are able to decrypt that
14 file.

15 Existing encryption techniques are appropriate in the situation where only legal sources have
16 access to specific copyrighted material and precaution has been made to assure that whoever
17 downloads that material can not subsequently distribute the material in an unencrypted format for
18 use, by way of example, on another device able to display, reproduce or play the copyrighted
19 material. I have noticed however, that existing encryption methods do not solve the problem of
20 protecting copyrighted material from unlawful use or reproduction if the copyrighted material is

1 already available in the hands of those who would make it available illegally; such is the case with
2 music files, which are already widely distributed in digital format (*i.e.*, compact discs, commonly
3 known as "CD's") making it easy for someone to illegally distribute the musical content read from
4 the disc over the Internet.

5 The fact that the digital content of a file, such as music, happens to be encrypted does not
6 mean that the digital content has been made available with the consent of the rightful owners in the
7 first place; therefore, encryption alone is not sufficient to address this problem of protecting
8 copyrightable material.

9 SUMMARY OF THE INVENTION

10 It is therefor, one object of the present invention to provide improved processes and apparatus
11 for distribution of files via the Internet.

12 It is another object to provide processes and apparatus to allow web sites to distribute
13 lawfully available copies of both unencrypted and encrypted files over the Internet to digital devices,
14 while concurrently preventing these digital devices from being able to either play or download files
15 that are available illegally.

16 It is still another object to provide processes and apparatus that allow web sites to distribute
17 legally available unencrypted and encrypted files over the Internet while simultaneously preventing
18 digital devices from either playing or downloading illegally available files.

19 It is yet another object to provide a relatively efficient and foolproof solution that, when
20 incorporated into processes and apparatus during the practice of the principles of the present

1 invention, remedies the problem of protecting copyrightable material from unlawful use,
2 reproduction and distribution by ensuring that a digital storage device will only be able to download
3 or play those files that were obtained from approved sources.

4 Due to the open architecture of personal computers and the fact that personal computers are
5 currently not covered under the *Digital Audio Recording Devices And Media Act*, 17 U.S.C. §1001,
6 *et seq.*, it may be difficult to restrict a personal computer from downloading illegally available
7 material; however, it is still possible from both a technical and legal perspective to restrict non-
8 personal computer digital devices (*i.e.*, non-PC's) from downloading illegal material either directly
9 from the Internet or from a personal computer. These and other objects may be attained by setting
10 up of an approved web site database with a personal computer that is equipped with software that
11 encrypts only those files that are downloaded from web sites listed on that database. In turn, a digital
12 storage device with a personal computer interface only downloads those files that have been
13 appropriately encoded by the personal computer; alternatively, the digital storage device can be
14 allowed to download any file but not be allowed to play or display any downloaded file. Similarly,
15 non-PC digital devices with direct Internet connectivity would be able to only download, play and
16 display those files downloaded from web sites on the Approved Website Database. The present
17 invention may therefore, be practiced regardless of whether the files that are made available on a web
18 site are either in an encrypted or in an unencrypted format.

19 In the practice of this invention with unencrypted files, digital devices are only able to
20 download files that were made available in unencrypted format with the permission of the rightful

1 owners of the copyrighted content of the material. The only action that is required by the managers
2 of web sites will be to submit their web site to an industry committee as a legitimate source of files
3 containing copyrighted material. This web site is in turn placed on the Approved Web site Database
4 and can be monitored for compliance with copyright protection laws. Those web sites that make
5 available files without the consent of the rightful owners of the copyrighted material in those files
6 would be denied listing on the Approved Website Database by the industry committee.

7 When practiced with an encrypted file during downloading, the practice of this invention
ensures that web sites provide encrypted copyrighted material with the consent of the rightful owners
of that material. The fact that a website happens to have the software necessary to encrypt the
copyrighted material does not, by itself, necessarily mean that the website is making those files
available over the Internet legally in the first place. Proper maintenance of the Approved Web Site
Database can serve as a way to ensure that digital devices are only able to download encrypted files
that were made available with the consent of the rightful owners of the material.

14 **BRIEF DESCRIPTION OF THE DRAWINGS**

15 A more complete appreciation of the invention, and many of the attendant advantages thereof,
16 will be readily apparent as the same becomes better understood by reference to the following detailed
17 description when considered in conjunction with the accompanying drawings in which like reference
18 symbols indicate the same or similar components, wherein:

19 Figure 1 is a diagram that illustrates the components of one system that may be used in the

1 practice of the principles of the present invention;

2 Figure 2 is a flow chart diagram that illustrates several of the steps that may be followed in
3 order to launch a software program on a personal computer by using standard web browser;

4 Figure 3 is a flow chart diagram that illustrates several of the steps that may be used in order
5 to encrypt music files that have been downloaded from a web site on an approved web site database;
6 and

7 Figure 4 is a flow chart diagram that illustrates one method for a digital storage device to
8 download, play and display encrypted files from a personal computer.

DETAILED DESCRIPTION OF THE INVENTION

Turning now to the drawings, Figure 1 illustrates one system constructed as an Approved
Web Site MP3 for downloading protectable material during the practice of the principles of the
present invention. A central server 100 operationally coupled to transmit and receive
communications on the Internet 112, contains an Approved Web Site Database, which is a list of
web sites maintained by a personal computer 114 that is deemed to be one of a plurality of
acceptable sources that are authorized to download via the modem 118 of computer 114, a file of a
certain type from a server 116 to non-PC digital devices, such as digital storage device 120. Digital
storage device 120 would, in turn, enable a consumer to use the downloaded material as, by way of
example, listening to audio sounds and music and viewing video images that are contained within
the downloaded file, with speakers or earphones (not shown) and the video monitor 122 of personal
computer 114. Keyboard 124 enables the consumer to control personal computer 114 as well as to

access the Internet 112 via modem 118.

Digital storage device 120 contains a PC interface (not separately shown) that permits control and data communication between computer 114 and device 120. Computer 114 loads from either an internal memory such as its hard disk, or from an external source, software that is adherent to the specifications described in the following paragraphs, to maintain copyright protection during and after the transfer of digital material to non-PC Internet enabled digital storage devices 120, as well as to digital storage devices that are able to download copyrightable material from the Internet 112 without the assistance of a PC 114.

Turning now to Figure 2, before a user begins to download selected files from Internet 112 onto a digital storage device 120 with a PC interface via a personal computer 114, the user first needs to load a software program (hereinafter sometimes referred to as the "Software Program" that is adherent to the specifications of this invention) from a memory 130 onto the operating system of computer 114. The Software Program loaded from memory 130 can contain either its own web browser program or the Software Program can be used in conjunction with another web browser already stored in computer 114. If the Software Program is to be used with another web browser, the Software Program can either be stored in a plug-in module that works with the web browser or the Software Program can configure the web browser so that the Software Program is the default executable program that is run whenever a user opens a file of the type that this system will be protecting (*e.g.*, MP3).

1 As illustrated by Figure 2, to implementing the latter approach, after starting the Software
2 Program in step 200, in step 204 the user clicks a mouse selector button (not shown) or a keyboard
3 designator to select a website link, to select and to download specific files desired by the user. The
4 Software Program gives the user an option in step 206 to either save or to open the selected
5 downloaded file. Designation by the user of an election to save the selected file, triggers the
6 Software Program to download the selected file from server 116 without first encrypting the selected
7 file. Alternatively, designation by the user of an election to open the selected file triggers the
8 Software Program to open the downloaded file and, in step 210, launch a program for playing the
contents of the opened file. As illustrated in the Figure 2, the Software Program may be
implemented with either a plug-in or proprietary web browser, in much the same way. Accordingly,
the Figures use a web browser as an illustrative example of an implementation of the principles of
the present invention.

Figure 3 illustrates the steps of the process for downloading a selected file from server 116.
The web browser launches the program in step 210 when a user is using the web browser on personal
computer 114 to visit a web site (*e.g.*, a web site maintained by a server 116) that either accesses
another server (not shown) or itself contains files that the user wishes to selectively download. In
step 204, the user designates a file that he has selected by clicking (*i.e.*, selecting via either a mouse
selector button or a designated key of keyboard 124) on the file that the user wishes to download and
then, in step 208, the browser prompts the user to indicate whether the user wishes to either open the
selected file or to save the selected file. In order to be able to download or play the file on his digital

1 storage device, the user must launch the Software Program during step 210, which, in this case,
2 means that the user must choose the "open file" option in reply to the query from the browser during
3 step 206.

4 When the Software Program is launched in step 210, in step 214 the Software Program
5 retrieves the IP address of the server 116 that stores the file that has been selected by the user to be
6 downloaded, and during step 216 the Software Program then sends a query to central server 100 to
7 determine whether the IP address for server 116 is listed on the Approved Web Site Database. If the
server 116 storing the file that was selected by the user to be downloaded is in the Approved Web
Site Database maintained by central server 100, during step 332 the Software Program begins
downloading the selected file from server 116.

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15 Either before, during or after the selected file is downloaded to the hard drive (not separately
16 shown) or other memory of computer 114, during step 224 central server 100 prompts the Software
17 Program to send information that is specific to computer 114 and the selected file to central server
18 100, together with encryption information and other data, preferably over a secure connection. In
19 response to the prompt, central server 100 stores and then uses this information, together with the
20 other data that it receives from the Software Program running in computer 114, to assembly and
transmit in step 228, unique encoding information back to the Software Program, so that the
Software Program may, during step 240, use that encoding information to encrypt the file being
downloaded, by using an encryption key unique to computer 114 and selected file being downloaded.
Alternatively, the Software Program may encrypt the selected file and generate an encryption key

1 without receiving the encoding information from the central server 100. The Software Program may
2 either begin the process of encrypting the selected file as the selected file is being downloaded, or
3 alternatively, the Software Program may wait until the selected file has been completely downloaded
4 and, during step 232, stored in a hidden directory in the hard drive, or other memory of computer
5 114, and then, during step 240, begin the process of encrypting the selected file within computer 114.
6 Once the selected file has been downloaded, during step 244 the Software Program opens a new
7 window on the screen 122 of the monitor in order to display information such as, by way of example
8 title, file name and the size of the file, that corresponds to the selected file.

9
10 When the inquiry to central server 100 initiated in step 216 determines that the web site (*e.g.*,
11 a web site accessed by server 116 or a web site maintained by computer 114) is not listed among the
12 web sites on the Approved Web Site Database, during step 220 the Software Program provides the
13 user with an option in step 248 that may be displayed on screen 122, to either download the selected
14 file in an unencrypted format, or to not download the selected file. If the user selects to not receive
15 the selected file in an unencrypted format, the Software Program terminates. If the user indicates
16 a desire to receive the selected file in an unencrypted format, the Software Program downloads the
selected file to a folder chosen by the user during step 252.

17 The user needs to use the Software Program to download the selected file from personal
18 computer 114 to a digital storage device 120 that is compliant with the specifications of this protocol
19 because digital storage device 120 is configured to only play or display files that have been
20 appropriately encoded by the Software Program.

Figure 4 illustrates the steps by which digital storage device 120 is able to download encrypted files from personal computer 114. In step 256, the user launches the program on personal computer 114. Then, in step 260, the user connects a digital storage device 120 to computer 114, and selects the particular desired file that the user wishes to download from computer 114. During step 264, the Software Program checks to determine whether the digital storage device 120 has been installed. If the determination establishes that device 120 has not been installed, the Program displays a message on screen 122 during step 268, stating that digital storage device 120 has not been yet initiated, and terminates the download algorithm. If the determination establishes that digital storage device 120 has been installed however, during step 272 digital storage device 120 downloads the selected file and the corresponding encryption information from computer 114.

Subsequently, the user may activate device 120 in order to either play or display the selected file during step 276. Once the user activates device 120 to either play or display the selected file, during step 280 device 120 employs the encryption key in order to check whether the file has been properly encoded. If during step 284 the determination is made that the selected file has been properly encoded, device 120 then decrypts and either plays or displays the file selected by the user during step 292. Alternatively however, if during step 284 a determination is made that the file has not been properly encoded, digital storage device 120 alerts the user and neither plays nor displays the selected file, but terminates the algorithm.

In order that digital storage devices 120 are able to play or display files that have been obtained from sources other than the Internet, the Software Program may be used by the user to

1 encrypt those files as well. For example, in the case when it is determined to be appropriate to copy
2 the contents of a compact disk onto the hard drive, or other memory of a personal computer 114 for
3 later copying onto a digital audio storage device, for example, the Software Program may be used
4 to appropriately encrypt the music tracks from the compact disk so that only that particular personal
5 computer 114 and the digital storage devices 120 downloading the contents directly from that
6 specific computer 114 will be able to play music from that specific compact disk. As an added
7 measure of security, the Software Program may require that computer 114 be connected to the
8 Internet and be able to access encryption coding information from the central server 100 so that the
Software Program can use the encryption coding information from the central server to encode the
selected file and to generate an encryption key.

The steps used to implement this process for Internet enabled digital storage devices is
similar to those used for digital storage devices with personal computer interfaces, except that the
Internet enabled digital storage devices do not require a personal computer in order to access files
from the Internet. As such, the Software Program is loaded on the Internet enabled digital storage
15 device instead of onto a personal computer. Additionally, when downloading a file of a certain type
16 from the Internet, the enabled digital storage device may alternatively configured so that it will only
17 be able to download files from web sites on the Approved Web Site List, whereas the personal
18 computer 114 is able to bypass the Software Program to download files from any source. It is
19 important to note however, that even when using a personal computer 114, a digital device 120 with
20 a personal computer interface that is compliant with the specifications of this invention is not able

1 to bypass these copyright protection mechanisms.

2 A digital content encryption apparatus deigned to restrict the sources from which a digital
3 storage device will play or display digital content, with an Approved Web Site Database which
4 contains a list of the web sites which are determined to be appropriate sources of files of a certain
5 type for digital storage devices adherent to the specification described in this invention. A Central
6 Server connected to the Internet on which the Approved Web Site Database is stored that performs
7 the following functions: when prompted by the Software Program located on a PC or Internet
enabled digital storage device, performs query search to determine whether a submitted IP address
is on the Approved Web Site Database; when it is found that the IP address is on the Approved Web
Site Database, generates encryption key/encoding information that is unique to the file being
downloaded and the device to which it is being downloaded and transmits it to the Software
Program; and transmits unique encryption key/encoding, information to the Software Program when
the Software Program requests one for the purpose of encoding digital content that is being copied
from a media storage peripheral device onto the device's own digital storage memory.

15 A Software Program located on a PC that performs the following functions: identifies the
16 IP address from which a file is being downloaded; sends a query to the Central Server to determine
17 whether an IP address is on the Approved Web Site Database; retrieves encryption key from Central
18 Server when the IP address is on the Approved Web Site Database; encrypts the downloaded file on
19 its own or using the encryption key provided by the Central Server 100; requests unique encryption

1 code/key from Central Server and/or generates own encryption key for the purpose of encrypting
2 digital content being copied from a PC peripheral onto the PC's hard drive; and initializes a Digital
3 Storage Device so that the Digital Storage Device is able to download and play/display encrypted
4 files downloaded from the PC.

5 A Digital Storage Device 120 with a PC interface that is adherent to this protocol, performs
6 the following functions: connects to PC so that it can be initialized by the Software Program; allows
7 the Software Program to retrieve information of files that it stores; allows the user to download files
to it through the user interface of the PC Software Program; retrieves encryption key from the
Software Program for files that it downloads; only plays or displays files that are appropriately
encrypted; does not play or display files that are sent to it in unencrypted format; and does not
provide other devices with access to its encryption key information.

8 The Software Program could also be located on an Internet enabled digital storage device 120
9 that performs the following functions: identifies the IP address from which a file is being
10 downloaded; sends a query to the central server 100 to determine whether an IP address is on the
11 Approved Web Site Database; retrieves encryption key/code information from central server 100
12 when the IP address is on the Approved Web Site Database; encrypts the downloaded file using the
13 encryption key provided by the central server 100; only plays or displays files that are appropriately
14 encrypted; does not play or display files that are sent to it in unencrypted format; and does not
15 provide other devices with access to its encryption key information.
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1 The foregoing paragraphs describe a workable solution that is relatively efficient and
2 foolproof when incorporated into processes and apparatus during the practice of the principles of the
3 present invention, remedy the problem of protecting copyrightable material from unlawful use,
4 reproduction and distribution by ensuring that a digital storage device will only be able to download
5 or play those files that were obtained from sources deemed either by the manufacturer of the device,
6 or by an overseeing organization, to be acceptable. This ensures that these processes and digital
7 storage devices do not download, play or display files that were obtained over the Internet from web
8 sites that have not been pre-approved by either the manufacturer of the device or by an overseeing
organization.

What is claimed is:

1 1. A digital content encryption apparatus, comprising:

2 a first server maintaining an approved website database comprising a list of the web sites
3 determined to be authorized sources of files for digital storage devices manufactured to use a key to
4 decrypt and play the files, said first server being connectable to an Internet, and:

5 when prompted by a user via a computer or an Internet enabled digital storage device,
6 making a query to determine whether a submitted IP address supplied by the user is on said
Approved Web Site Database;

 when a determination is made that said submitted IP address is on the Approved Web
Site Database, generating encryption key and encryption information that is unique to a
selected file requested by the user to be downloaded and to any device to which it is being
downloaded and transmits it to the Software Program; and

 transmits unique encryption key/encoding, information to the Software Program when
the Software Program requests one for the purpose of encoding digital content that is being
copied from a media storage peripheral device onto the device's own digital storage memory;

15 a personal computer comprised of a memory storing a software program comprised
16 of the steps of:

17 identifying the IP address from which a file is being downloaded;

18 sending a query to said first server to determine whether an IP address is on the
19 Approved Web Site Database;

retrieving encryption key from said first server when the IP address is on the
Approved Web Site Database;

encrypting the downloaded file on its own or using the encryption key provided by
said first server;

requesting unique encryption code/key from said central server and/or generates own
encryption key for the purpose of encrypting digital content being copied from a PC
peripheral onto a memory of said personal computer; and

initializing a digital storage device to download and play/display encrypted files
downloaded from said personal computer; and

a digital storage device with a PC interface, connectable to said personal computer,
accommodates retrieval by said Software Program from information stored by said digital storage
device, stores download files received through the user interface of the PC Software Program,
retrieves encryption keys from said Software Program for downloaded files, plays and displays only
files that are encrypted in conformity with said encryption code/key, and refuses to play and display
files in an unencrypted format.

ABSTRACT

Disclosed are processes and apparatus that, when practiced according to the principles of the present invention, ensure that a digital storage device will only be able to download or play files that were obtained from sources deemed either by the manufacturer of the device, or by an overseeing organization, to be acceptable.

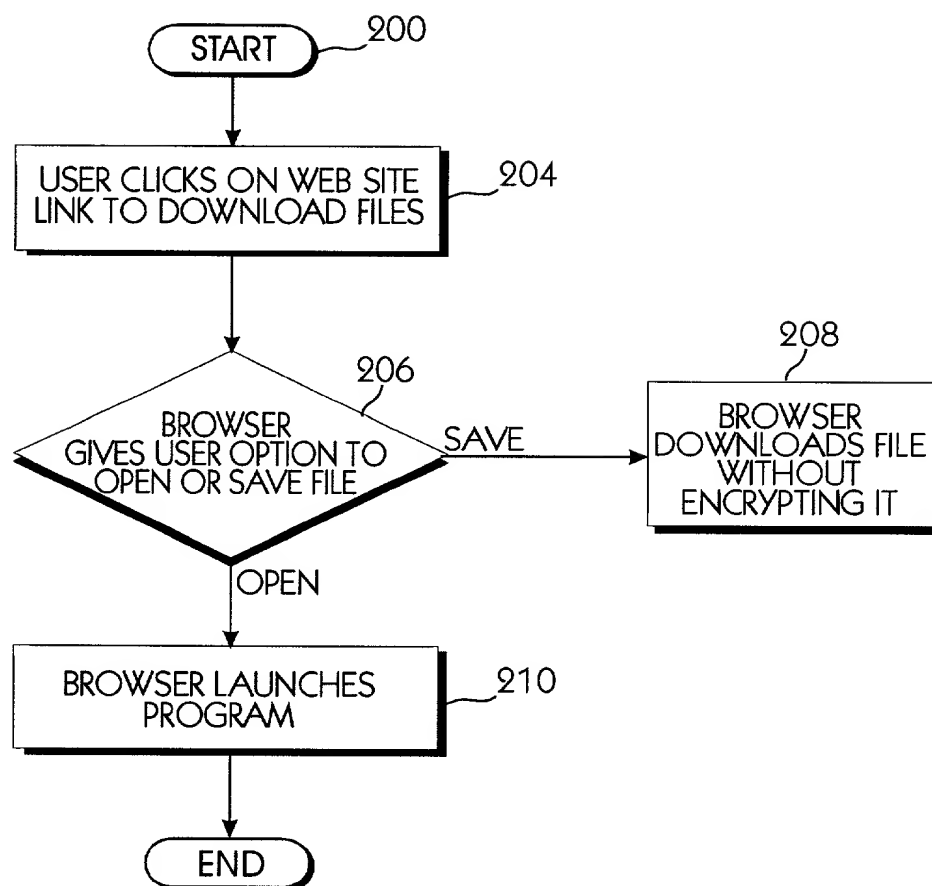


FIG. 2

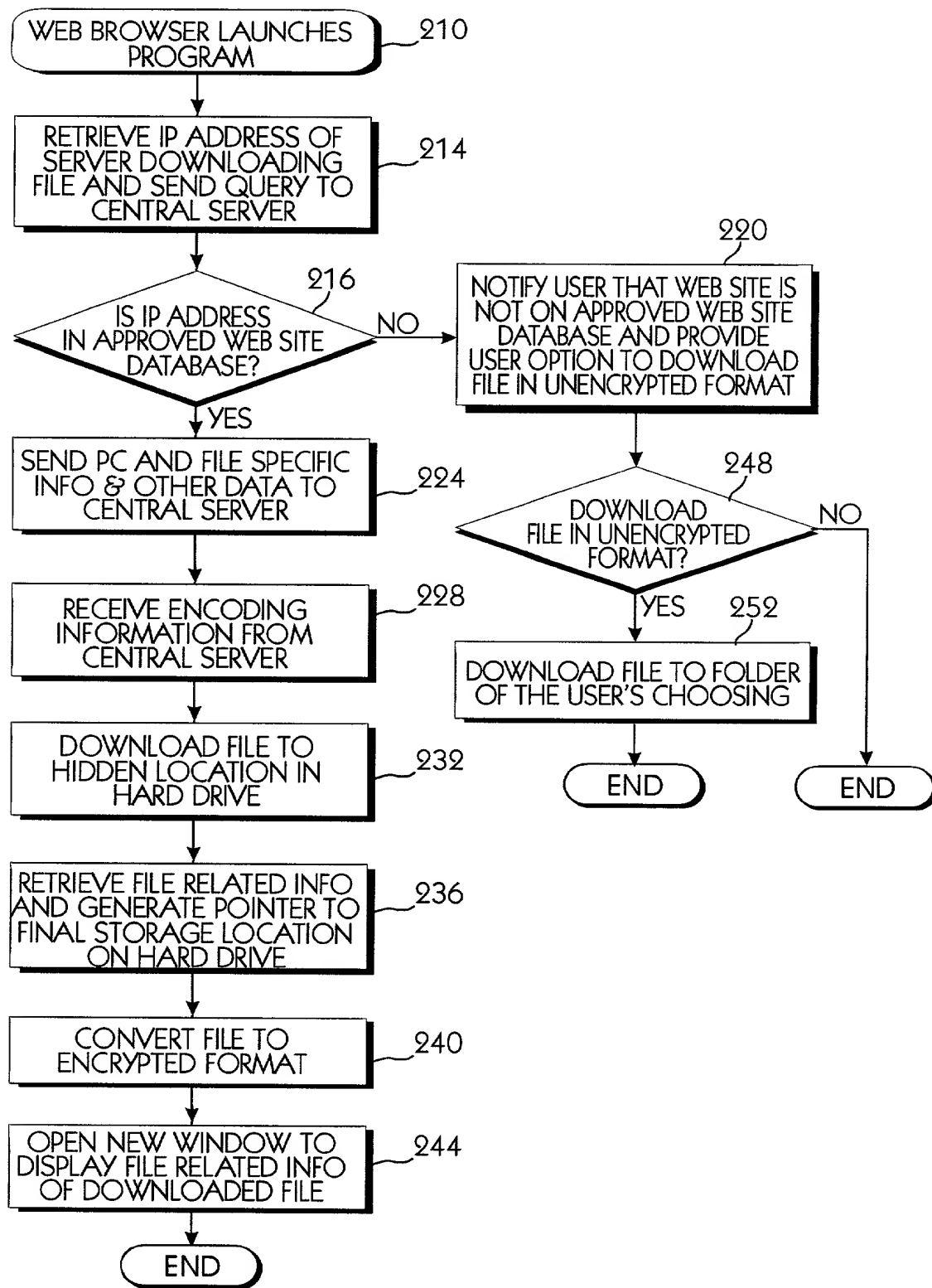


FIG. 3

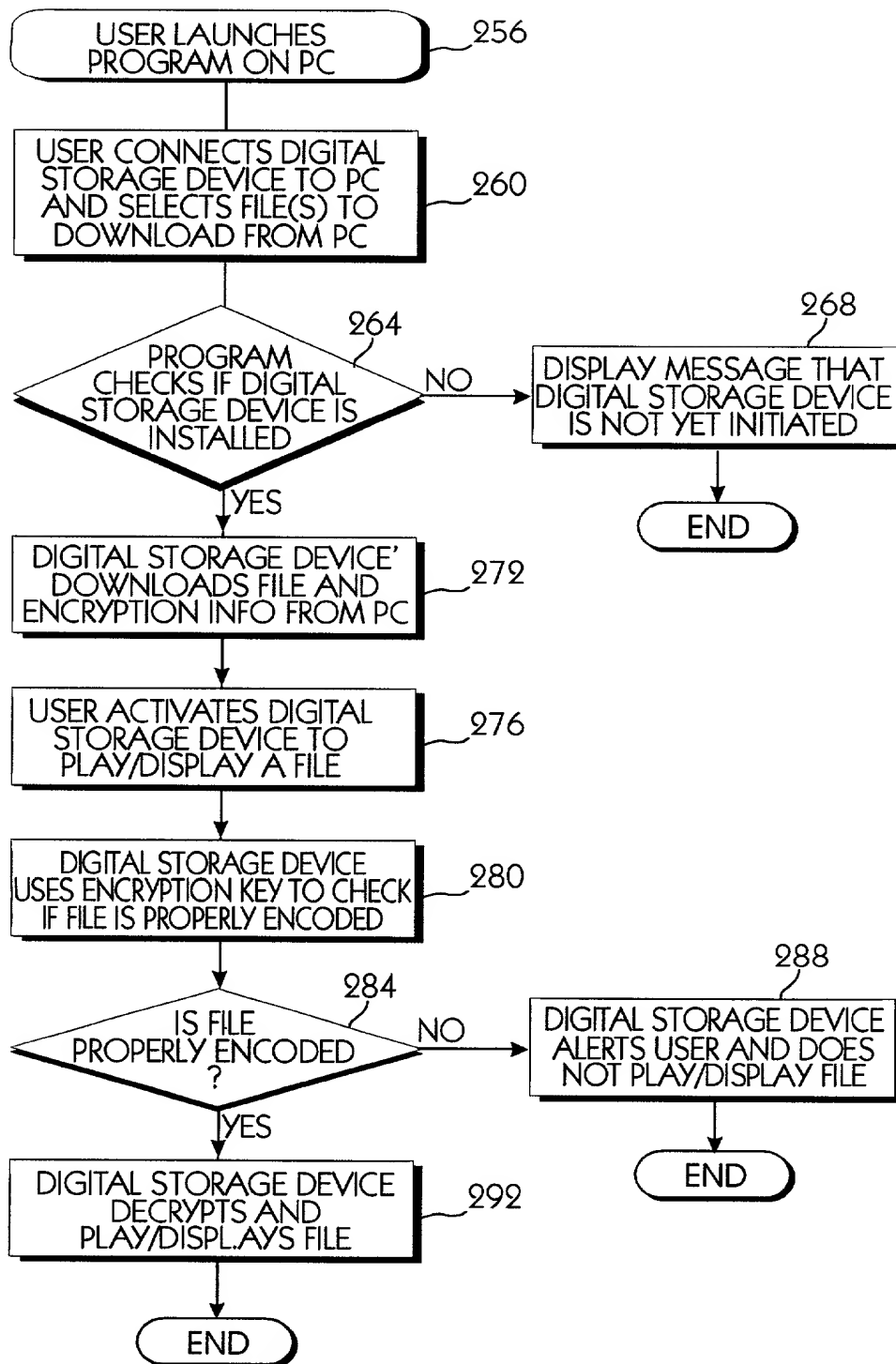


FIG. 4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ZACHARY DAVID DIMENSTEIN

Serial No.: *to be assigned*

Examiner: *to be assigned*

Filed: 4 January 2000

Art Unit: *to be assigned*

For: APPROVED WEB SITE MP3 DOWNLOADING

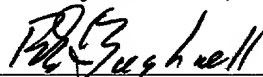
TRANSMITTAL OF DECLARATION

Assistant Commissioner
for Patents
Washington, D.C. 20231

Sir:

This transmittal accompanies a Declaration without the signature by the inventor(s), for the above-captioned application. A Substitute Declaration with the inventor(s)'s signature will be filed upon receipt of the Serial No. for the above-captioned application.

Respectfully submitted,



Robert E. Bushnell,
Attorney for the Applicant
Registration No.: 27,774

Suite 300, 1522 "K" Street, N.W.
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Folio: P55941
Date: 01/04/0
I.D.: REB/kf

DECLARATION

AS A BELOW NAMED INVENTOR, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe that I am the original, first and sole (*if only one name is listed below*), or an original, first and joint inventor (*if plural names are listed below*), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE: *APPROVED WEB SITE MP3 DOWNLOADING*

the specification of which either is attached hereto or otherwise accompanies this Declaration, or:



was filed in the U.S. Patent & Trademark Office on _____ and assigned Serial No. _____.



and (*if applicable*) was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability and to the examination of this application in accordance with Title 37 of the Code of Federal Regulations §1.56. I hereby claim foreign priority benefits under Title 35, U.S. Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, or §119(e) of any United States provisional application(s), listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>60/114,958</u>	<u>USA</u>	<u>5 January 1999</u>	Priority Claimed:
(Application Number)	(Country)	(Day/Month/Year filed)	Yes [X] No []
_____	_____	_____	Yes [] No []
(Application Number)	(Country)	(Day/Month/Year filed)	

I hereby claim the benefit under Title 35, U.S. Code, §120, of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, U.S. Code, §112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, The Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

_____	_____	_____
(Application Serial No.)	(Filing Date)	(STATUS: patented, pending, abandoned)

_____	_____	_____
(Application Serial No.)	(Filing Date)	(STATUS: patented, pending, abandoned)

I hereby revoke all previously granted powers of attorney and appoint the following attorneys: Robert E. Bushnell, Reg. No. 27,774, Michael D. Parker, Reg. No. 34,973, and Darren R. Crew, Reg. No. 37,806, to prosecute this application and to transact all business in the U.S. Patent & Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

Robert E. Bushnell,
Attorney-at-Law

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Washington, D.C. 20005-1202

Payor No. 008439

Area Code: 202-638-5740

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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FULL NAME OF SECOND JOINT INVENTOR: _____

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Inventor's signature: _____

Date: _____

Residence & Post Office Address: _____

FULL NAME OF THIRD JOINT INVENTOR: _____

Citizenship: _____

Inventor's signature: _____

Date: _____

Residence & Post Office Address: _____

FULL NAME OF FOURTH JOINT INVENTOR: _____

Citizenship: _____

Inventor's signature: _____

Date: _____

Residence & Post Office Address: _____



Additional inventors are being named on separately numbered sheets attached hereto.